



#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau



### 

### (43) International Publication Date 11 December 2003 (11.12.2003)

#### **PCT**

# (10) International Publication Number WO 03/101400 A2

(51) International Patent Classification7:

(21) International Application Number: PCT/US03/17559

(22) International Filing Date: 4 June 2003 (04.06.2003)

(25) Filing Language:

English

A61K

(26) Publication Language:

English

(30) Priority Data:

60/385,505

4 June 2002 (04.06.2002) US

- (71) Applicant (for all designated States except US): AVALON PHARMACEUTICALS, INC. [US/US]; 20358 Seneca Meadows Parkway, Germantown, MD 20876 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHEA, Martin [US/US]; 345 Market Street West #316, Gaithersburg, MD 20878 (US). EBNER, Reinhard [US/US]; 9906 Shelburn Terrace #316, Gaithersburg, MD 20878 (US).
- (74) Agents: GRANT, Alan, J. et al.; Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart &, Olstein, 6 Becker Farm Road, Roseland, NJ 07068 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.





(54) Title: CANCER-LINKED GENE AS TARGET FOR CHEMOTHERAPY

(57) Abstract: Cancer-linked gene sequences, and derived amino acid sequences, are disclosed along with processes for assaying potential antitumor agents based on their modulation of the expression of these cancer-linked genes. Also disclosed are antibodies that react with the disclosed polypeptides and methods of using the antibodies to treat cancerous conditions, such as by using the antibody to target cancerous cells *in vivo* for purposes of delivering therapeutic agents thereto. Also described are methods of diagnosing using the gene sequences.